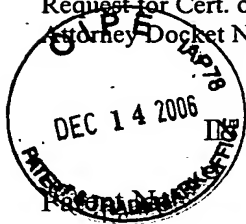


10/699, 330.

C7C
EY

Patent No. 7,052,821
Request for Cert. of Correction dated December 12, 2006
Attorney Docket No. 5219-061239



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No. : 7,052,821 Confirmation No. 2552
Inventor : Kohl et al.
Issued : May 30, 2006
Title : Sacrificial Compositions, Methods Of Use Thereof,
And Methods Of Decomposition Thereof
Examiner : Hoa Van Le
Customer No. : 28289

Certificate
DEC 19 2006
of Correction

SECOND
REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT
FOR PTO MISTAKE (37 C.F.R. 1.322(a))

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

ATTENTION: Decision and Certificate of Correction Branch
Patent Issue Division

Sir:

In accordance with 35 U.S.C. §254, we attach hereto Form PTO/SB/44 and a copy of proof of PTO errors and request that a **Corrected** Certificate of Correction be issued in the above-identified patent. The Certificate of Correction which issued on November 21, 2006 did not correct the spelling of "POLYNORBORNENE" in two places. It must be difficult for the printing office to discern between "RN" and "M". The Sealed Certificate which issued November 21, 2006 is enclosed. The following errors appear in the patent as printed:

Face of the Patent, See Item (74), Attorney, Agent, or Firm, "Thomas, Kayden, Horstemeyer & Risley LLP" should read -- The Webb Law Firm --
(See the Request for Withdrawal as Attorney and Change of Correspondence Address which was faxed to the PTO on April 7, 2006 -- the patent issued on May 30, 2006.)

Column 15, Line 34 and Line 35, Claim 1, "polynorbomene carbonate (PNC), a copolymer of polynorbomene and polynorbomene carbonate" should read -- polynorbornene carbonate (PNC), a copolymer of polynorbornene and polynorbornene carbonate --
(See Amendment mailed 05/31/2005, page 2, Claim 1, Line 6.)

DEC 26 2006

Patent No. 7,052,821
Request for Cert. of Correction dated December 12, 2006
Attorney Docket No. 5219-061239

Column 15, Line 42, Claim 2, "100 to 120 C." should read -- 100 to 120°C. --
(See Amendment mailed 05/31/2005, page 2, Claim 2, Line 2.

Column 16, Line 3, Claim 3, "175 to 200 C." should read -- 175 to 200°C. --
(See Amendment mailed 05/31/2005, page 2, Claim 3, Line 2.

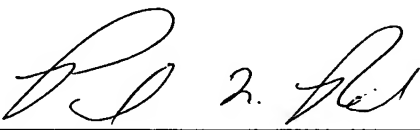
Column 16, Line 6, Claim 4, "100 to 120 C." should read -- 100 to 120°C. --
(See Amendment mailed 05/31/2005, page 2, Claim 4, Line 2.

Column 16, Line 11, Claim 5, "100 to 120 C." should read -- 100 to 120°C. --
(See Amendment mailed 05/31/2005, page 3, Claim 5, Line 2.

Column 16, Line 19, Claim 8, "a diphenylfluoronium salt" should read
-- a diphenylfluoronium salt --
(See Amendment mailed 05/31/2005, page 3, Claim 11, Line 2.
Claim 11 issued as Claim 8.)

Respectfully submitted,

THE WEBB LAW FIRM

By  _____

Paul M. Reznick
Registration No. 33,059
Attorney for Registrants
700 Koppers Building
436 Seventh Avenue
Pittsburgh, PA 15219
Telephone: (412) 471-8815
Facsimile: (412) 471-4094

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

Page 1 of 1

PATENT NO. : 7,052,821
APPLICATION NO. : 10/699,330
ISSUE DATE : May 30, 2006
INVENTORS : Kohl et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Face of the Patent, See Item (74), Attorney, Agent, or Firm, "Thomas, Kayden, Horstemeyer & Risley LLP" should read -- The Webb Law Firm --

Column 15, Line 34 and Line 35, Claim 1, "polynorbomene carbonate (PNC), a copolymer of polynorbomene and polynorbomene carbonate" should read -- polynorbornene carbonate (PNC), a copolymer of polynorbornene and polynorbornene carbonate --

Column 15, Line 42, Claim 2, "100 to 120 C." should read -- 100 to 120°C. --

Column 16, Line 3, Claim 3, "175 to 200 C." should read -- 175 to 200°C. --

Column 16, Line 6, Claim 4, "100 to 120 C." should read -- 100 to 120°C. --

Column 16, Line 11, Claim 5, "100 to 120 C." should read -- 100 to 120°C. --

Column 16, Line 19, Claim 8, "a diphenylfluoronium salt" should read -- a diphenylfluoronium salt --

MAILING ADDRESS OF SENDER: The Webb Law Firm
700 Koppers Building
436 Seventh Avenue
Pittsburgh, PA 15219-1845

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-2450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention: Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DEC 20 2006

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,052,821 B2
APPLICATION NO. : 10/699330
DATED : May 30, 2006
INVENTOR(S) : Kohl et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On Title Page, See Item (74), Attorney, Agent, or Firm, "Thomas, Kayden, Horstemeyer & Risley LLP" should read -- The Webb Law Firm --

Column 15, Line 34 and Line 35, Claim 1, "polynorbomene carbonate (PNC), a copolymer of polynorbomene and polynorbomene carbonate" should read -- polynorbomene carbonate (PNC), a copolymer of polynorbornene and polynorbomene carbonate --

Column 15, Line 42, Claim 2, "100 to 120 C." should read -- 100 to 120°C. --

Column 16, Line 3 Claim 3, "175 to 200 C." should read -- 175 to 200°C. --

Column 16, Line 6, Claim 4, "100 to 120 C." should read -- 100 to 120°C. --

Column 16, Line 11, Claim 5, "100 to 120 C." should read -- 100 to 120°C. --

Column 16, Line 19, Claim 8, "a diphenylfluoronium salt" should read -- a diphenylfluoronium salt --



Signed and Sealed this

Twenty-first Day of November, 2006

JON W. DUDAS
Director of the United States Patent and Trademark Office

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TO: Fax Sender at 7709510933

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04/07/2006	15:00	7709510933	THOMAS, KAYDEN	PAGE 01
CERTIFICATE OF FACSIMILE TRANSMISSION <u>UNDER 37 CFR §1.8</u>				
I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being transmitted on the date indicated below via facsimile to the United States Patent and Trademark Office, facsimile number (571)-273-8300.				
Date:	<u>April 7, 2006</u>		<u>Julie Campbell</u>	
In Re: Application of: Kohl, et al.				
Serial No.:	10/699,330	Group Art Unit:	1752	
Filed:	10/31/2003	Examiner:	Hoa Van Le	
For:	Sacrificial Compositions, Methods of Use Thereof, and Methods of Decomposition Thereof		Docket No.	62020-1540
The following is a list of documents enclosed:				
Return Postcard Request for Withdrawal as Attorney and Change of Correspondence Address				
PAGE 1/2 * RCVD AT 4/7/2006 2:55:23 PM (Eastern Daylight Time) * SVR:USPTO-EFAXF-3V15 * DNS:2738300 * CSID:7709510933 * DURATION (min-sec):00:56				

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UNDER 37 CFR §1.8

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Date:

April 7, 2006

Julie Campbell
Julie Campbell

In Re Application of:

Kohl, et al.

Serial No.: **10/699,330**

Filed: **10/31/2003**

For: **Sacrificial Compositions, Methods of Use Thereof,
and Methods of Decomposition Thereof**

Group Art Unit: **1752**

Examiner: **Hoa Van Le**

Docket No. **62020-1540**

The following is a list of documents enclosed:

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Request for Withdrawal as Attorney
and Change of Correspondence Address

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REQUEST FOR WITHDRAWAL AS ATTORNEY OR AGENT AND CHANGE OF CORRESPONDENCE ADDRESS

Application Number	10/699,330
Filing Date	10/31/2003
First Named Inventor	Kohl, et al.
Art Unit	1752
Examiner Name	Hoa Van Le
Attorney Docket Number	062020-1540

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Please withdraw me as attorney or agent for the above identified patent application, and

- ☐ all the attorneys/agents of record.
- ☐ the attorneys/agents (with registration numbers) listed on the attached paper(s), or
- ☒ the attorneys/agents associated with Customer Number 24504

NOTE: This box can only be checked when the power of attorney of record in the application is to all the practitioners associated with a customer number.

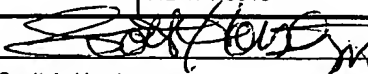
The reasons for this request are:

CORRESPONDENCE ADDRESS

1. ☐ The correspondence address is NOT affected by this withdrawal.
2. ☒ Change the correspondence address and direct all future correspondence to:

☐ The address associated with Customer Number:

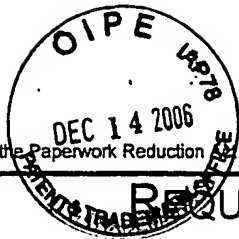
OR

<input checked="" type="checkbox"/> Firm or Individual Name	Paul Reznick, Esq. THE WEBB LAW FIRM		
Address	700 Koppers Building		
City	Pittsburg	State	PA Zip/ 15219
Country	USA		
Telephone	412-471-8815	Email	
Signature			
Name	Scott A. Horstemeyer	Registration No.	34,183
Date	April 7, 2006	Telephone No.	(770) 933-9500

NOTE: Withdrawal is effective when approved rather than when received. Unless there are at least 30 days between approval of withdrawal and the expiration date of a time period for response or possible extension period, the request to withdraw is normally disapproved.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/30(09-04)
Approved for use through 07/31/2006. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

REQUEST
FOR
CONTINUED EXAMINATION (RCE)
TRANSMITTAL

Address to:
Mail Stop RCE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Application Number	10/699,330
Filing Date	October 31, 2003
First Named Inventor	Kohl, et al.
Group Art Unit	1752
Examiner Name	Le, Hoa Van
Attorney Docket Number	062020-1540

This is a Request for Continued Examination (RCE) under 37 C.F.R. §1.114 of the above-identified application.
Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See Instruction Sheet for RCE's (not to be submitted to the USPTO) on page 2.

1. **Submission required under 37 CFR 1.114** Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).
- a. ☐ Previously Submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.
- i. ☐ Consider the amendment(s) reply under 37 CFR 1.116 previously filed on
- ii. ☐ Other:
- b. ☒ Enclosed
- i. ☒ Amendment/Reply
- ii. ☐ Affidavit(s)/Declaration(s)
- iii. ☒ Information Disclosure Statement (IDS)
- iv. ☐ Other:
2. **Miscellaneous**
- a. ☐ Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a period of months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required).
- b. ☐ Other:
3. **Fees** The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RCE is filed.
- a. ☒ The Director is hereby authorized to charge the following fees, or credit any overpayments to Deposit Account No. 20-0778.
- i. ☒ RCE fee required under 37 CFR 1.17(e) (#395)
- ii. ☐ Extension of time fee (37 CFR 1.136 and 1.17)
- iii. ☒ Other: Terminal Disclaimer Fee \$130.00
- b. ☐ Check in the amount of \$ enclosed.
- c. ☒ Payment by credit card (Form PTO-2038 enclosed) (\$525)

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED

Name (Print Type)	Cynthia J. Lee	Registration No. (Attorney/Agent)	46,033
Signature	<i>Cynthia J. Lee</i>	Date	05/31/05

CERTIFICATE OF MAILING OR TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.

Name (Print/Type)	Jennifer Pomonis		
Signature	<i>J. Pomonis</i>	Date	5/31/05

This collection of information is required by 37 CFR 1.114. This information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending on the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1455, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Kohl, et al.

Serial No.: 10/699,330

Filed: October 31, 2003

Confirmation No.: 2552

Group Art Unit: 1752

Examiner: LE, Hoa Van

Docket No. 062020-1540

For: **Sacrificial Compositions, Methods of Use Thereof, and Methods of Decomposition Thereof**

SECOND RESPONSE TO OFFICE ACTION (WITH AMENDMENTS)
SUBMISSION UNDER 37 CFR 1.114(C)

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

The outstanding Final Office Action mailed *March 29, 2005* (Paper No. 20050323) has been carefully considered. In response thereto, please enter the following amendments in which claims 14-31 are cancelled. Claims 1-7 and 11-13 are now pending in the present application. Reconsideration and allowance of the application and presently pending claims, as amended, are respectfully requested.

AUTHORIZATION TO DEBIT ACCOUNT

It is believed that no extensions of time or fees for net addition of claims are required, beyond those which may otherwise be provided for in documents accompanying this paper. However, in the event that additional extensions of time are necessary to allow consideration of this paper, such extensions are hereby petitioned under 37 C.F.R. § 1.136(a), and any fees required therefor (including fees for net addition of claims) are hereby authorized to be charged to deposit account no. 20-0778.

AMENDMENTS TO THE CLAIMS

Please amend the claims as indicated hereafter.

1.

(Previously amended) A sacrificial composition of matter that decomposes to form air-regions, the sacrificial composition comprising:

5 a sacrificial polymer that undergoes acid-catalyzed decomposition, wherein the sacrificial polymer is chosen from polypropylene carbonate (PPC), polyethylene carbonate (PEC), polycyclohexane carbonate (PCC), polycyclohexanepropylene carbonate (PCPC), polynorbornene carbonate (PNC), a copolymer of polynorbornene and polynorbornene carbonate, and combinations thereof; and

a catalytic amount of a photoacid generator, wherein the photoacid generator is chosen from a nucleophilic halogenide, a complex metal halide anion, and combinations thereof.

2.

(Original) The composition of matter of claim 1, wherein the composition decomposes at a temperature range from about 100 to 120 °C.

3.

(Original) The composition of matter of claim 1, wherein the composition decomposes at a temperature range from about 175 to 200 °C.

4.

(Previously amended) The composition of matter of claim 1, wherein the composition decomposes at a temperature range from about 100 to 120 °C and leaves substantially no solid residue either from the polymer or the photoacid generator (PAG).

5. (Original) The composition of matter of claim 1, wherein the composition decomposes at a temperature range from about 100 to 120 °C after exposure to ultraviolet (UV) radiation.

6. (Original) The composition of matter of claim 1, wherein the composition acts as an adhesive.

7. (Original) The composition of matter of claim 1, wherein the composition is a positive tone sacrificial material.

8. - 10. (Canceled)

8. 11. (Original) The composition of matter of claim 1, wherein the photoacid generator is chosen from a ~~diphenyliodonium salt, a triphenylsulfonium salt, a diphenylfluoronium salt,~~ and combinations thereof.

9. 12. (Previously Amended) The composition of matter of claim 1, wherein the photoacid generator is chosen from tetrakis(pentafluorophenyl)borate-4-methylphenyl[4-(1-methylethyl)phenyl] iodonium (DPI-TPFPB), tris(4-t-butylphenyl)sulfonium tetrakis(pentafluorophenyl)borate (TTBPS-TPFPB), tris(4-t-butylphenyl)sulfonium hexafluorophosphate (TTBPS-HFP), triphenylsulfonium triflate (TPS-Tf), bis(4-tert-butylphenyl)iodonium triflate (DTBPI-Tf), triazine (TAZ-101), triphenylsulfonium hexafluoroantimonate (TPS-103), triphenylsulfonium bis(perfluoromethanesulfonyl) imide (TPS-N1), di-(p-t-butyl)phenyliodonium bis(perfluoromethanesulfonyl) imide (DTBPI-N1), triphenylsulfonium